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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/939,258 08/24/2001		James M. Derderian	4831US (01-0105)	2185	
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TRASK BRITT P.O. BOX 2550			GRAYBILL, DAVID E		
SALT LAKE CITY, UT 84110			ART UNIT	PAPER NUMBER	
3.12.1	,		2822		

DATE MAILED: 10/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		At	pplication No.	Applicant(s)	Applicant(s)		
		09	9/939,258	DERDERIAN, JAI	DERDERIAN, JAMES M.		
	Office Action Summary	Ex	aminer	Art Unit			
			avid E Graybill	2822			
Period for	- The MAILING DATE of this commu r Reply	nication appears	s on the cover sheet with	the correspondence ac	idress		
THE M - Extens after S - If the p - If NO p - Failure Any re	DRTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provision BX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty (period for reply is specified above, the maximum s to reply within the set or extended period for reply ply received by the Office later than three months department adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply with tatutory period will ap y will, by statute, caus	In no event, however, may a repl in the statutory minimum of thirty (ply and will expire SIX (6) MONTH te the application to become ABAN	y be timely filed 30) days will be considered time S from the mailing date of this o IDONED (35 U.S.C. § 133).			
Status							
1) 🖂 🖯	Responsive to communication(s) fil	ed on 26 July 2	2004				
•	•		ion is non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims						
5)□ (6)⊠ (7)□ (<u></u>						
Application	on Papers						
10)□ T	The specification is objected to by the drawing(s) filed on is/are Applicant may not request that any objected the Replacement drawing sheet(s) including the oath or declaration is objected the	e: a) accepte ection to the draw g the correction i	ving(s) be held in abeyance s required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 C	, ,		
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)						
2) 🔲 Notice 3) 🔯 Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (I ation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date <u>2 pages</u> .		Paper No(s)/N	nmary (PTO-413) Mail Date rmal Patent Application (PT	O-152)		

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Claims 4 and 25 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-8, 10, 12-17 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pu (6593662) and conventional art as disclosed in Derderian (20030038353).

Pu is applied for the same reason it was applied to claims 1, 3-8 and 12-17 in the previous Office action.

In addition, Pu discloses that the spacer is, at least indirectly, secured to a contact pad of the at least one semiconductor device.

To further clarify, the silicon spacer of Pu is inherently electrically conductive.

However, Pu does not appear to explicitly disclose that the spacer is a resiliently compressible spacer.

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Nonetheless, at column 4, lines 46-47, Pu discloses that the spacer "can be made of silicon." Moreover, at paragraph 10, Derderian discloses that silicon and "polymide" are conventional equivalent spacer materials. Therefore, it would have been obvious to substitute the conventional polymide spacer for the silicon spacer of Pu. In addition, it would have been obvious to substitute the conventional polymide spacer for at least some of the silicon spacer of Pu because it would provide a spacer, and substitution of a known element based on its suitability for its intended use has been held to be prima facie obvious. See MPEP 2144.07. Also, it would have been obvious to substitute the conventional polymide spacer for at least some of the silicon spacer of Pu because it would provide an alternative spacer when the use of the silicon spacer of Pu becomes infeasible, e.g., when the silicon spacer is cost ineffective or when it is unavailable due to a supply disruption. Furthermore, it would have been obvious to combine the conventional polymide spacer with the silicon spacer of Pu, by combining the polymide with the silicon in an individual spacer or by providing both polymide and silicon spacers, because it has been held that it is obvious to combine two inventions for the same purpose. In re Novak 16 USPQ2d 2043. Similarly, "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose

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[T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 205 USPQ 1069, 1072 (CCPA 1980) (citations omitted) (Claims to a process of preparing a spray - dried detergent by mixing together two conventional spray - dried detergents were held to be prima facie obvious.). See also, In re Crockett, 279 F.2d 274, 126 USPQ 186 (CCPA 1960) (Claims directed to a method and material for treating cast iron using a mixture comprising calcium carbide and magnesium oxide were held unpatentable over prior art disclosures that the aforementioned components individually promote the formation of a nodular structure in cast iron.); and Ex parte Quadranti 25 USPQ2d 1071 (Bd. Pat. App. & Inter. 1992) (Mixture of two known herbicides held prima facie obvious). In addition, polymide (both polyimide and polyamide) is inherently resiliently compressible.

Claims 18-21, 30, 31, 33-35 and 54 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Foster (6437449).

At column 2, line 59 to column 6, line 61, Foster discloses all of the claim limitations.

To further clarify, Foster discloses spacers 121/221 and 116/216.

Claims 11, 22, 18-23, 25, 28, 30-35 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pu as applied to claims 18-23, 25, 28 and 30-35 in the previous Office action, and over Pu and Derderian as

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applied to claims 1, 3-8, 10, 12-17 and 53 supra, and further in combination with Foster (6437449).

Pu and Derderian do not appear to explicitly disclose at least one spacer in communication with a ground or voltage reference plane of the first device, and establishing communication between the backs side of the second device and the ground or voltage plane.

Nevertheless, as cited supra, Foster discloses these limitations.

Moreover, it would have been obvious to combine this disclosure of Foster with the disclosure of Pu and Derderian because it would facilitate ground and voltage connection.

Claims 1, 3-8 and 10-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foster as applied under 35 U.S.C. 102(e) to claims 18-21, 30, 31, 33-35 and 54, and further in combination with Derderian (20030038353).

Foster does not appear to explicitly disclose that the spacer is resiliently compressible.

Notwithstanding, as cited supra, Foster discloses that the spacer is silicon. Moreover, at paragraph 10, Derderian discloses that silicon and "polymide" are conventional equivalent spacer materials. Therefore, it would have been obvious to substitute the conventional polymide spacer for the silicon spacer of Foster. In addition, it would have been obvious to

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substitute the conventional polymide spacer for at least some of the silicon spacer of Foster because it would provide a spacer, and substitution of a known element based on its suitability for its intended use has been held to be prima facie obvious. See MPEP 2144.07. Also, it would have been obvious to substitute the conventional polymide spacer for at least some of the silicon spacer of Foster because it would provide an alternative spacer when the use of the silicon spacer of Foster becomes infeasible, e.g., when the silicon spacer is cost ineffective or when it is unavailable due to a supply disruption. Furthermore, it would have been obvious to combine the conventional polymide spacer with the silicon spacer of Foster, by combining the polymide with the silicon in an individual spacer or by providing both polymide and silicon spacers, because it has been held that it is obvious to combine two inventions for the same purpose. In re Novak 16 USPQ2d 2043. Similarly, "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose [T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 205 USPQ 1069, 1072 (CCPA 1980) (citations omitted) (Claims to a process of preparing a spray - dried detergent by mixing together two conventional spray - dried detergents were held to be prima facie obvious.). See also, In

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re Crockett, 279 F.2d 274, 126 USPQ 186 (CCPA 1960) (Claims directed to a method and material for treating cast iron using a mixture comprising calcium carbide and magnesium oxide were held unpatentable over prior art disclosures that the aforementioned components individually promote the formation of a nodular structure in cast iron.); and Ex parte Quadranti 25 USPQ2d 1071 (Bd. Pat. App. & Inter. 1992) (Mixture of two known herbicides held prima facie obvious). In addition, polymide (both polyimide and polyamide) is inherently resiliently compressible.

Also, Foster discloses that the spacer is dielectric and/or insulative.

Therefore, it would have been obvious to use the conventional polymide spacer material as the spacer material of Foster because it would facilitate provision of the dielectric and/or insulative spacer of Foster.

Applicant's remarks filed 7-26-4 have been fully considered and are addressed supra and infra.

Applicant's statement that claim 25 is canceled is incorrect.

The art made of record and not applied to the rejection is considered pertinent to applicant's disclosure. It is cited primarily to show inventions similar to the instant invention.

For information on the status of this application applicant should check PAIR: Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Alternatively, applicant may contact the File Information Unit at (703) 308-2733. Telephone status inquiries should not be directed to the examiner. See MPEP 1730VIC, MPEP 203.08 and MPEP 102.

Any other telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (703) 872-9306.

David E. Graybill Primary Examiner Art Unit 2827

D.G. 16-Oct-04